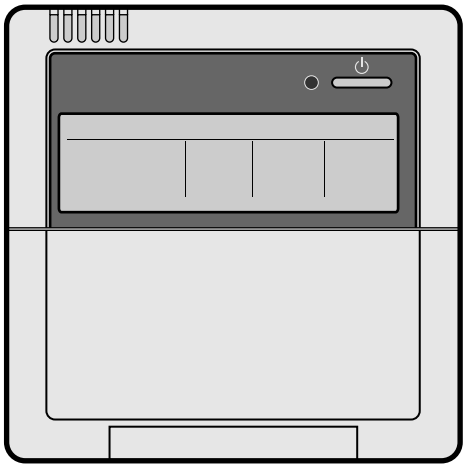
DAIKIN

OPERATION MANUAL

VRVII System air conditioner



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We use recycled paper for making this operation manual

Operation manual
VRVII System air conditioner
English

Manual de operación
Sistema de acondicionador de aire VRVII
Español

Manual de funcionamento
Ar condicionado VRVII System
Portugues

Руководство по эксплуатации.
Кондиционер системы VRVII.
Russian

使用説明書
VRVII係統空調機
Taiwanese

使用说明书
VRVII系统空调机
Chinese

Thank you for purchasing this Daikin air conditioner. Carefully read this operation manual before using the air conditioner. It will tell you how to use the unit properly and help you if any trouble occurs. After reading the manual, file it away for future reference.

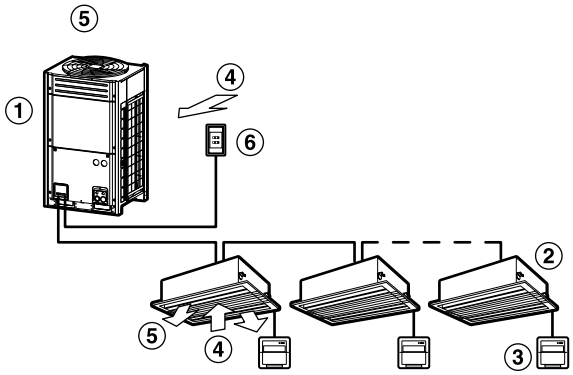
Спасибо за покупку данного кондиционера фирмы Daikin. До начала работы с кондиционером внимательно изучите данное руководство по эксплуатации. В нем излагаются правила надлежащего пользования устройством и приводятся рекомендации пользователю по поиску и устранению неисправностей. После изучения руководства сохраните его для обращений в будущем.

Gracias por haber adquirido este acondicionador de aire Daikin. Lea con atención este manual antes de utilizar el artefacto. El manual explica cómo usar la unidad correctamente y lo ayuda en caso de que surjan problemas. Después de leerlo, guárdelo para referencia futura.

感謝您購買大金的空調機。
在使用本空調機之前，請仔細閱讀本使用説明書。
本説明書説明空調機的正確的使用方法，和發生故障時的對應措施。
閱讀完畢本説明書後，請妥善保管，以備需要時查閱。

Muito obrigado por ter adquirido este aparelho de ar condicionado Daikin. Antes de utilizar o aparelho, leia atentamente o presente manual de funcionamento. Nele obterá informações sobre o modo de utilizar correctamente o aparelho e ajuda na eventualidade de ocorrência de problemas. Depois de ler o manual, guarde-o para consultas futuras.

感谢您购买大金的空调机。
在使用本空调机之前，请仔细阅读本使用说明书。
本说明书说明空调机的正确的使用方法，和发生故障时的对应措施。
阅读完毕本说明书后，请妥善保管，以备需要时查阅。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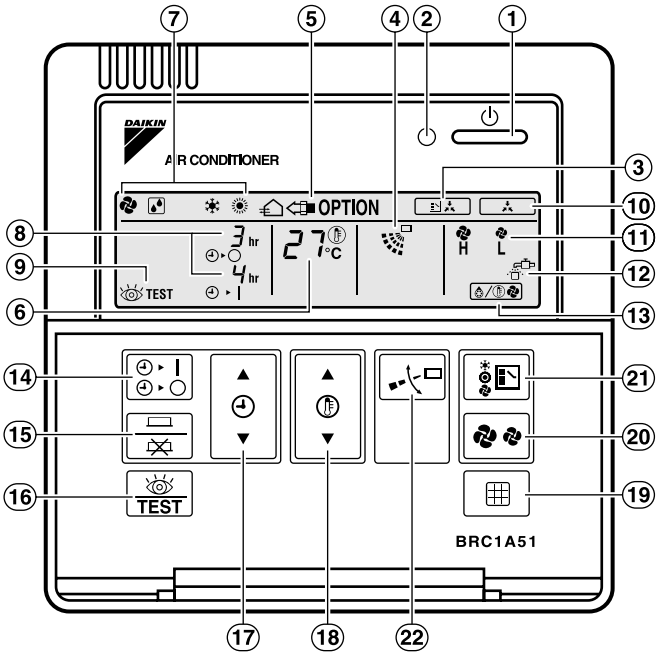
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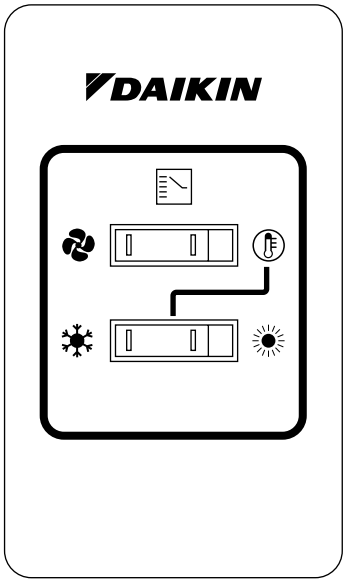
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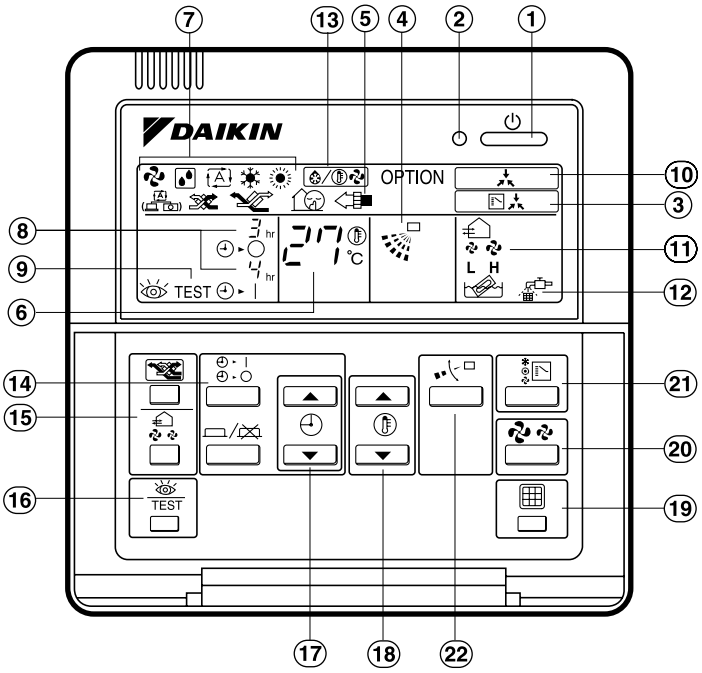
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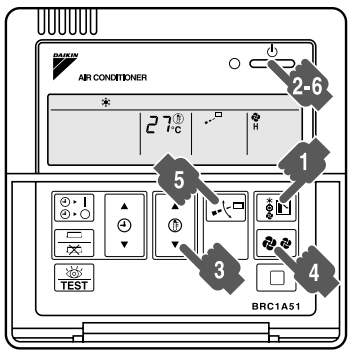
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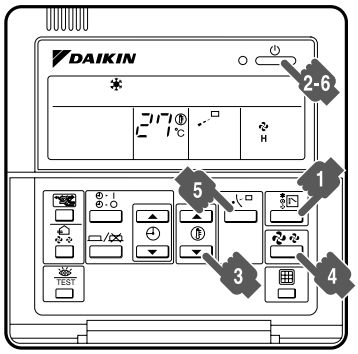
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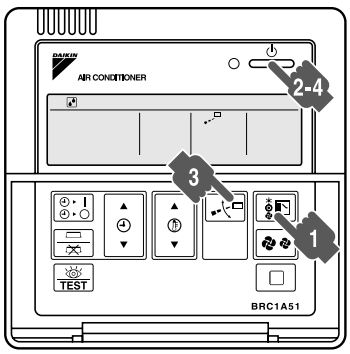
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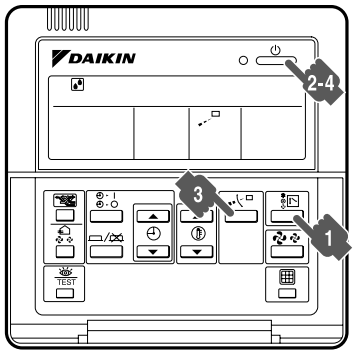
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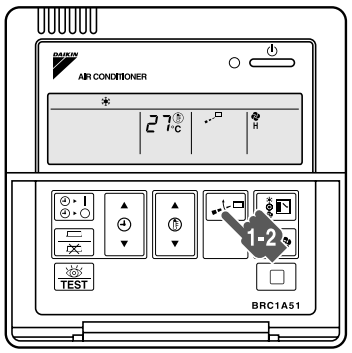
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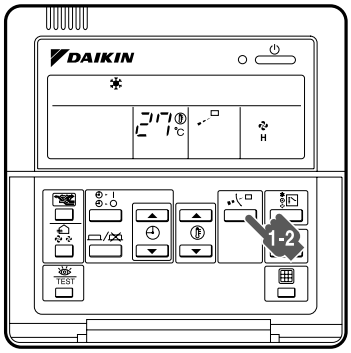
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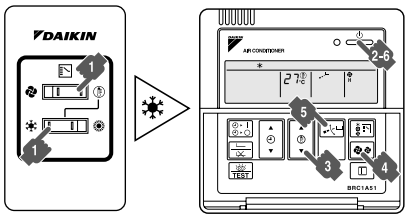
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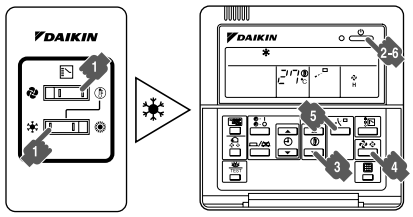
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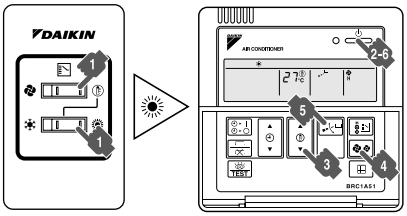
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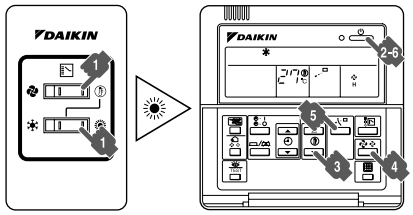
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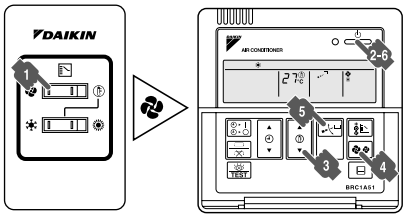
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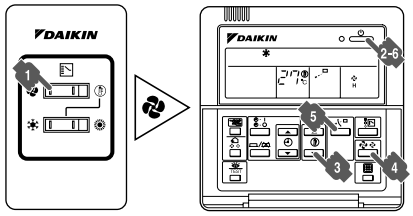
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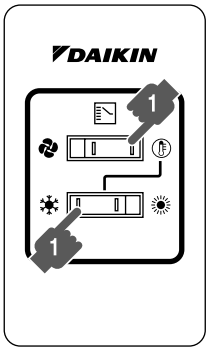
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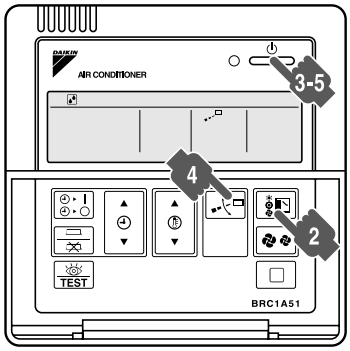
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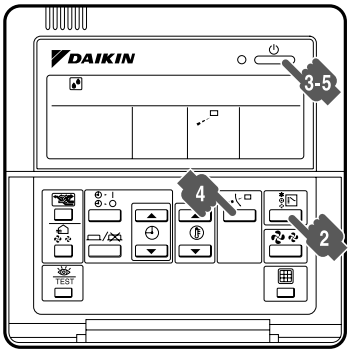
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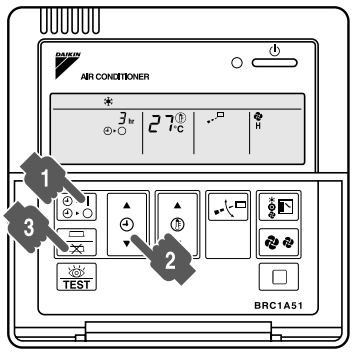

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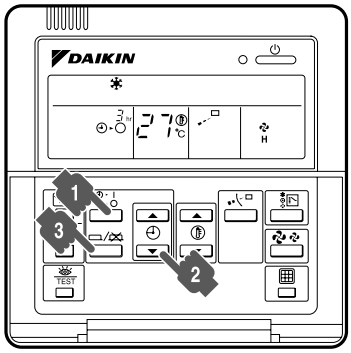

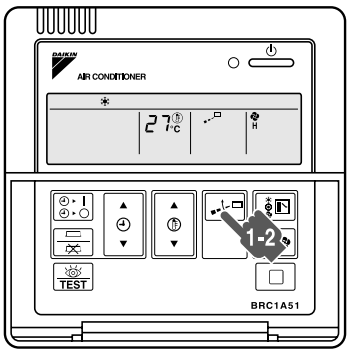

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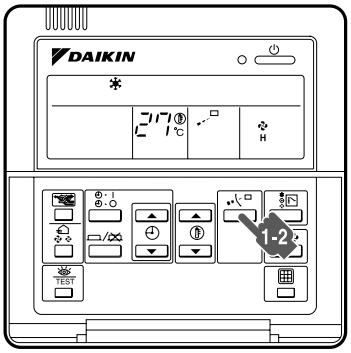

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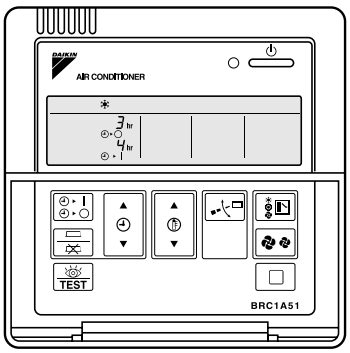

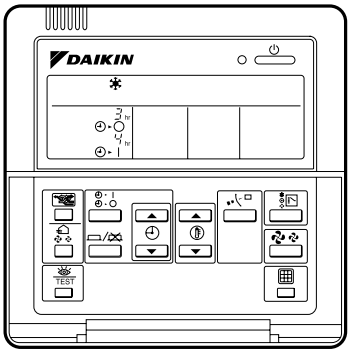

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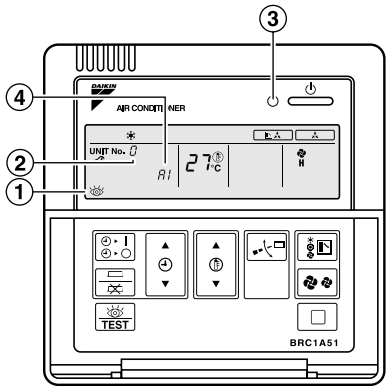

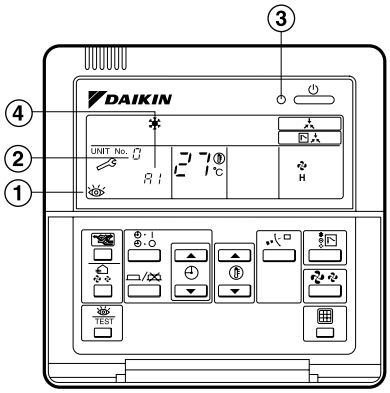

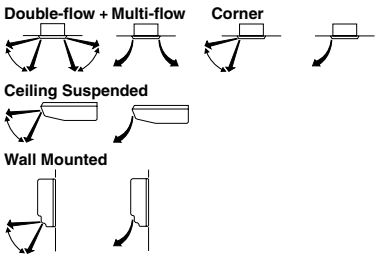

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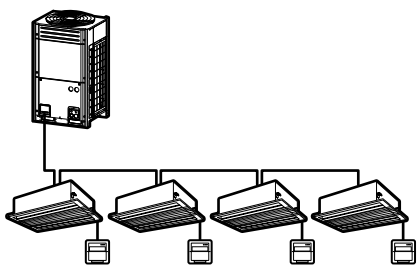

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1. SAFETY CAUTIONS

Read the following cautions carefully and use your equipment properly.

There are three kinds of safety cautions and tips listed here as follows:

⚠ **WARNING** ..... Improper handling can lead to such serious consequences as death or severe injury.

⚠ **CAUTION** ..... Improper handling can lead to injury or damage. It could also have serious consequences under certain conditions.

NOTE

- These instructions will ensure proper use of the equipment.

Be sure to follow these important safety cautions.

Keep these warning sheets handy so that you can refer to them if needed.
Also, if this equipment is transferred to a new user, make sure to hand over this user's manual to the new user.

⚠ WARNING

It is not good for your health to expose your body to the air flow for a long time.

In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.

Ask your dealer for installation of the air conditioner.
Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.

Ask your dealer for improvement, repair, and maintenance.
Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.

Do not put a finger, a rod or other objects into the air inlet or outlet. As the fan is rotating at high speed, it will cause injury.

The refrigerant in the air conditioner is safe and normally does not leak. If the refrigerant leaks inside the room, the contact with a fire of a burner, a heater or a cooker may result in a harmful gas.
Do not use the air conditioner until when a service person confirms to finish repairing the portion where the refrigerant leaks.

For refrigerant leakage, consult your dealer.
When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the limiting concentration even when it leaks. If the refrigerant leaks exceeding the level of limiting concentration, an oxygen deficiency accident may happen.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.

Ask your dealer to move and reinstall the air conditioner.
Incomplete installation may result in a water leakage, electric shock, and fire.

In order to avoid electric shock, fire, injury or damaging the unit, do not use improper ampere fuses or do not use copper nor steel wires instead.

⚠ CAUTION

Do not use the air conditioner for other purposes.
In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.

In order to avoid injury, do not remove the fan guard.

To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.

After a long use, check the unit stand and fitting for damage.
If they are left in a damaged condition, the unit may fall and result in injury.

Neither place a flammable spray bottle near the air conditioner nor perform spraying.
Doing so may result in a fire.

Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.
Otherwise, an electric shock and injury may result.

Do not operate the air conditioner with a wet hand.
An electric shock may result.

Do not place items under the indoor unit which may be damaged by water.
Condensation may form if the humidity is above 80% or if the drain outlet gets blocked.

Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.

Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
Falling or tumbling may result in injury.

Never expose little children, plants or animals directly to the air flow.
Adverse influence to little children, animals and plants may result.

Do not wash the air conditioner with excessive water.
Electric shock or fire may result.

Do not install the air conditioner at any place where flammable gas may leak out.
If the gas leaks out and stays around the air conditioner, a fire may break out.

In order to avoid electric shock or fire, make sure that an earth leakage breaker is installed.

Be sure the air conditioner is electrically earthed.
In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

Arrange the drain hose to ensure smooth drainage. Incomplete drainage may cause wetting of the building, furniture etc.

Do not let children play on and around the outdoor unit.
If they touch the unit carelessly, it may result in injury.

Do not place a flower vase and anything containing water.
Water may enter the unit, causing an electric shock or fire.

Do not place the controller exposed to direct sunlight.
The LCD display may get discolored, failing to display the data.

Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc.
The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.

Never touch the internal parts of the controller.
Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen. For checking and adjusting the internal parts, contact your dealer.

Avoid placing the controller in a spot splashed with water.
Water coming inside the machine may cause an electric leak or may damage the internal electronic parts.

Never press the button of the remote controller with a hard, pointed object.
The remote controller may be damaged.

Never pull or twist the electric wire of a remote controller.
It may cause the unit to malfunction.

Do not operate the air conditioner when using a room fumigation - type insecticide.
Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.

The appliance is not intended for use by young children or infirm persons without supervision.

Young children should be supervised to ensure that they do not play with the appliance.

2. WHAT TO DO BEFORE OPERATION

This operation manual is for the following systems with standard control. Before initiating operation, contact your Daikin dealer for the operation that corresponds to your system type and mark.

If your installation has a customized control system, ask your Daikin dealer for the operation that corresponds to your system.

Outdoor units **(Refer to figure 1)**

	Cool/heat changeover remote control switch	Operation modes
Inverter series		
heat pumps **RXY** series	❑ yes ❑ no	☀ ☀

- **Names and functions of parts (Refer to figure 1)**
  1. Outdoor unit
  2. Indoor unit
  3. Remote controller
  4. Inlet air
  5. Outlet air
  6. Cool/heat changeover remote control switch

(figure 1 shows systems with changeover remote control switches)

3. REMOTE CONTROLLER AND CHANGEOVER SWITCH: NAME AND FUNCTION OF EACH SWITCH AND DISPLAY (Refer to figure 2 and 3)

1. On/off button
Press the button and the system will start. Press the button again and the system will stop.

2. Operation lamp (red)
The lamp lights up during operation.

3. Display " ▭ " (changeover under control)
It is impossible to changeover heat/cool with the remote controller when this icon is displayed.

4. Display " " (air flow flap)
Refer to the chapter "Operation procedure - Adjusting the air flow direction".

5. Display " OPTION " (ventilation/air cleaning)
This display shows that the total heat exchange and the air cleaning unit are in operation. (these are optional accessories)

6. Display " " (set temperature)
This display shows the temperature you have set.

7. Display " " " " " " " " (operation mode)
This display shows the current operation mode.

8. Display " " (programmed time)
This display shows the programmed time of the system start or stop.

9. Display " TEST " (inspection/test operation)
When the inspection/test operation button is pressed, the display shows the mode in which the system actually is.

10. Display " ▭ " (under centralized control)
When this display shows, the system is under centralized control. (This is not a standard specification.)

11. Display " " (fan speed)
This display shows the fan speed you have selected.

12. Display " " (time to clean air filter)
Refer to the indoor unit manual.

13. Display " " (defrost/hot start)
Refer to the chapter "Operation procedure - Explanation of heating operation."

14. Timer mode start/stop button
Refer to the chapter "Operation procedure - Programming start and stop of the system with timer."

15. Timer on/off button
Refer to the chapter "Operation procedure - Programming start and stop of the system with timer."

16. Inspection/test operation button
This button is only used by qualified service persons for maintenance purposes.

17. Programming time button
Use this button for programming start and/or stop time.

18. Temperature setting button
Use this button for setting the desired temperature.

19. Filter sign reset button
Refer to the indoor unit manual.

20. Fan speed control button
Press this button to select the fan speed of your preference.

21. Operation mode selector button
Press this button to select the operation mode of your preference.

22. Air flow direction adjust button
Refer to the chapter "Operation procedure - Adjusting the air flow direction".

23. Fan only/air conditioning selector switch
Set the switch to " " for fan only operation or to " " for heating or cooling operation.

24. Cool/heat changeover switch
Set the switch to " " for cooling or to " " for heating operation.

NOTE

- In contradistinction to actual operating situations, the display on figure 1 shows all possible indications.
- If the filter sign lamp lights up, clean the air filter as explained in the indoor unit manual. After cleaning and reinstalling the air filter: press the filter sign reset button on the remote controller. The filter sign lamp on the display will go out.
- The remote controller BRC1A52 (for FXS, FXM, FXL, FXN) does not have the display air flow flap (4) nor the air flow direction adjust button (22).

4. WARNING

4-1 NEVER DO THE FOLLOWING

- **Never let the indoor unit or the remote controller get wet.**
  Do not wash the outdoor unit with water.
  It may cause an electric shock or a fire.
- **Never use flammable spray such as hair spray, lacquer or paint near the unit.**
  It may cause a fire.
- **Never touch the air outlet or the horizontal blades while the swing flap is in operation.**
  Fingers may become caught or the unit may break down.
- **Never replace a fuse with that of wrong ampere ratings or other wires when a fuse blows out.**
  Use of wire or copper wire may cause the unit to break down or cause a fire.
- **Never put any objects into the air inlet or outlet.**
  Objects touching the fan at high operating speed can be dangerous.
- **Never remove the fan guard of the outdoor unit.**
  A fan rotating at high speed without the fan guard is very dangerous.
- **Never press the button of the remote controller with a hard, pointed object.**
  The remote controller may be damaged.
- **Never pull or twist the electric wire of the remote controller.**
  It may cause the unit to malfunction.
- **Never inspect or service the unit by yourself.**
  Ask a qualified service person to perform this work.
- **To prevent refrigerant leak, contact your Daikin dealer.**
  When the system is installed and run in a small room, it is required to keep the concentration of the refrigerant, if by and chance coming out, bellow the limit. Otherwise, oxygen in the room may be affected, resulting in a serious accident.
- **Cut off all electric waves before servicing.**

5. OPERATION RANGE

Use the system in the following temperature and humidity ranges for safe and effective operation.

	COOLING	HEATING
outdoor temperature	–5°~43°CDB	–20°~21°CDB**
		–20°~15.5°CWB**
indoor temperature	21°~32°CDB	15°~27°CDB
	14°~25°CWB	
indoor humidity	≤ 80%*	

** –20°~–15°CWB: Range for operation

–15°~15.5°CWB: Range for continuous operation

*To avoid condensation and water dripping out the unit.
If the temperature or the humidity is beyond these conditions, safety devices may work and the air conditioner may not operate.

6. OPERATION PROCEDURE

- Operation procedure varies according to the combination of outdoor unit and remote controller. Read the chapter “What to do before operation”.
- To protect the unit, turn on the main power switch 6 hours before operation.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

6-1 COOLING, HEATING, AND FAN ONLY OPERATION (Refer to figure 4 and 7)

- Changeover cannot be made with a remote controller whose display shows “ ” (changeover under control).
- When the display “ ” (changeover under control) flashes, refer to the chapter “Operation procedure - Setting the master remote controller”.
- The fan may keep on running for about 1 minute after the heating operation stops.
- The air flow rate may adjust itself depending on the room temperature or the fan may stop immediately. This is not a malfunction.

FOR SYSTEMS WITHOUT COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH (Refer to figure 4)

1. Press the operation mode selector button several times and select the operation mode of your choice;
   - “ ” Cooling operation
   - “ ” Heating operation
   - “ ” Fan only operation
2. Press the on/off button.
   The operation lamp lights up and the system starts operation.

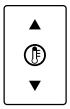
FOR SYSTEMS WITH COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH (Refer to figure 7)

1. Select operation mode with the cool/heat changeover remote control switch as follows:
   - “ ” “ ” Cooling operation **(Refer to figure 7.1)**
   - “ ” “ ” Heating operation **(Refer to figure 7.2)**
   - “ ” Fan only operation **(Refer to figure 7.3)**

2 Press the on/off button.
The operation lamp lights up and the system starts operation.

Adjustment
For programming temperature, fan speed and air flow direction (only for the remote controller BRC1A51: FXC, FXF, FXH, FXK, FXA), follow the procedure shown below.

3 Press the temperature setting button and program the desired temperature.



Each time this button is pressed, the temperature setting rises or lowers 1°C.

NOTE
- Set the temperature within the operation range.
- The temperature setting is impossible for fan only operation.

4 Press the fan speed control button and select the fan speed of your preference.

5 Press air flow direction adjust button.
Refer to the chapter “Adjusting the air flow direction” for details.

Stopping the system

6 Press the on/off button once again.
The operation lamp goes off and the system stops operation.

NOTE
- Do not turn off power immediately after the unit stops, but wait for at least 5 minutes.

EXPLANATION OF HEATING OPERATION

Defrost operation
- In heating operation, freezing of the outdoor unit coil increases. Heating capability decreases and the system goes into defrost operation.
- The indoor unit fan stops and the remote controller displays “ ”.
- After maximum 10 minutes of defrost operation, the system returns to heating operation again.

Hot start
- In order to prevent cold air from blowing out of an indoor unit at the start of heating operation, the indoor fan is automatically stopped. The display of the remote controller shows “ ”.

6-2 PROGRAM DRY OPERATION

- The function of this program is to decrease the humidity in your room with a minimum temperature decrease.
- The micro computer automatically determines temperature and fan speed.
- The system does not go into operation if the room temperature is low.

FOR SYSTEMS WITHOUT COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH (Refer to figure 5)

1 Press the operation mode selector button several times and select “ ” (program dry operation).

2 Press the on/off button
The operation lamp lights up and the system starts operation.

3 Press the air flow direction adjust button (only for FXC, FXF, FXH, FXK, FXA). Refer to the chapter “Adjusting the air flow direction” for details.

Stopping the system

4 Press the on/off button once again.
The operation lamp goes off and the system stops operation.

NOTE
- Do not turn off power immediately after the unit stops, but wait for at least 5 minutes.

FOR SYSTEMS WITH COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH (Refer to figure 8)

1 Select cooling operation mode with the cool/heat changeover remote control switch.

2 Press the operation mode selector button several times and select program dry “ ”.

3 Press the on/off button
The operation lamp lights up and the system starts operation.

4 Press the air flow direction adjust button (only for FXC, FXF, FXH, FXK, FXA). Refer to the chapter “Adjusting the air flow direction” for details.

Stopping the system

5 Press the on/off button once again.
The operation lamp goes off and the system stops operation.

NOTE
- Do not turn off power immediately after the unit stops, but wait for at least 5 minutes.

6-3 ADJUSTING THE AIR FLOW DIRECTION (Refer to figure 6) (only for Double-flow, Multi-flow, Corner, Ceiling-suspended and Wall-mounted)

1 Press the air flow direction button to select the air direction.
The air flow flap display swings as shown below and the air flow direction continuously varies. (Automatic swing setting)

2 Press the air flow direction adjust button to select the air direction of your choice.

The air flow flap display stops swinging and the air flow direction is fixed. (Fixed air flow direction setting)

MOVEMENT OF THE AIR FLOW FLAP (Refer to figure 13)

For the following conditions, a micro computer controls the air flow direction which may be different from the display.

COOLING	HEATING
———	• When starting operation. • When the room temperature is higher than the set temperature. • At defrost operation.
• When operating continuously at horizontal air flow direction. • When continuous operation with downward air flow is performed at the time of cooling with a ceiling-suspended or a wall-mounted unit, the microcomputer may control the flow direction, and then the remote control indication also will change.	

The air flow direction can be adjusted in one of the following ways.
- The air flow flap itself adjusts its position.
- The air flow direction can be fixed by the user.
- Automatic " " and desired position " ".

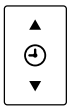
NOTE
- The movable limit of the flap is changeable. Contact your Daikin dealer for details. (Only for Double-flow, Multi-flow, Corner, Ceiling-suspended and Wall-mounted.)
- Avoid operating in the horizontal direction " ". It may cause dew or dust to settle on the ceiling.

6-4 PROGRAMMING START AND STOP OF THE SYSTEM WITH TIMER (Refer to figure 9)

- The timer is operated in the following two ways.
  Programming the stop time " ▸ ". The system stops operating after the set time has elapsed.
  Programming the start time " ▸ ". The system starts operating after the set time has elapsed.
- The timer can be programmed for a maximum of 72 hours.
- The start and the stop time can be simultaneously programmed.

1 Press the timer mode start/stop button several times and select the mode on the display.
The display flashes.
- For setting the timer stop " ▸ "
- For setting the timer start " ▸ "

2 Press the programming time button and set the time for stopping or starting the system.



Each time this button is pressed, the time advances or goes backward by 1 hour.

3 Press the timer on/off button.
The timer setting procedure ends. The display " ▸ " or " ▸ " changes from flashing light to constant light.

NOTE
- When setting the timer off and on at the same time, repeat the above procedure (from " " to " ") once again.
- After the timer is programmed, the display shows the remaining time.
- Press the timer on/off button once again to cancel programming. The display vanishes.

For example: (Refer to figure 11)
When the timer is programmed to stop the system after 3 hours and start the system after 4 hours, the system will stop after 3 hours and start 1 hour later.

6-5 SETTING THE MASTER REMOTE CONTROLLER (for RXY series) (Refer to figure 10)

- When the system is installed as shown in figure 14, it is necessary to designate one of the remote controllers as the master remote controller.

FOR RXY SERIES (Refer to figure 14)
When one outdoor unit is connected with several indoor units.

- Only the master remote controller can select heating or cooling.
- The displays of slave remote controllers show " " (changeover under control) and they automatically follow the operation mode directed by the master remote controller.

However, it is possible to changeover to program dry with slave remote controllers if the system is in cooling operation set by the master remote controller.

How to designate the master remote controller

1. Press the operation mode selector button of the current master remote controller for 4 seconds.
   The display showing " [changeover under control] " (changeover under control) of all slave remote controllers connected to the same outdoor unit flashes.
2. Press the operation mode selector button of the controller that you wish to designate as the master remote controller. Then designation is completed. This remote controller is designated as the master remote controller and the display showing " [changeover under control] " (changeover under control) vanishes.
   The displays of other remote controllers show " [changeover under control] " (changeover under control).

6-6 PRECAUTIONS FOR GROUP CONTROL SYSTEM OR TWO REMOTE CONTROLLER CONTROL SYSTEM

This system provides two other control systems beside individual control (one remote controller controls one indoor unit) system. Confirm the following if your unit is of the following control system type.

- **Group control system**
  One remote controller controls up to 16 indoor units. All indoor units are equally set.
- **Two remote controller control system**
  Two remote controllers control one indoor unit (in case of group control system, one group of indoor units). The unit is individually operated.

NOTE

- Contact your Daikin dealer in case of changing the combination or setting of group control and two remote controller control systems.

7. OPTIMUM OPERATION

Observe the following precautions to ensure the system operates properly.

- Adjust the air outlet properly and avoid direct air flow to room inhabitants.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate often.
  Extended use requires special attention to ventilation.
- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Never place objects near the air inlet or the air outlet of the unit. It may cause deterioration in the effect or stop the operation.
- Turn off the main power supply switch to the unit when the unit is not used for longer periods of time. If the switch is on, it uses electricity. Before restarting the unit, turn on the main power supply switch 6 hours before operation to ensure smooth running. (Refer to the chapter “Maintenance” in the indoor unit manual.)
- When the display shows " [clean] " (time to clean the air filter), ask a qualified service person to clean the filters. (Refer to the chapter “Maintenance” in the indoor unit manual.)
- Keep the indoor unit and remote control at least 1 m away from televisions, radios, stereos, and other similar equipment.
  Failing to do so may cause static or distorted pictures.

8. FOLLOWING SYMPTOMS ARE NOT AIR CONDITIONER TROUBLES

8-1 THE SYSTEM DOES NOT OPERATE

- **The air conditioner does not start immediately after the ON/OFF button on the remote controller is pushed.**
  If the operation lamp lights, the system is in normal condition.
  To prevent overloading of the compressor motor, the air conditioner starts 5 minutes after it is turned ON again in case it was turned OFF just before. The same starting delay occurs after the operation mode selector button was used.
- **If “Centralized Control” is displayed on the remote control and pressing the operation button causes the display to blink for a few seconds.**
  This indicates that the central device is controlling the unit.
  The blinking display indicates that the remote control cannot be used.
- **The system does not start immediately after the power supply is turned on.**
  Wait one minute until the micro computer is prepared for operation.

8-2 COOL/HEAT CANNOT BE CHANGED OVER

- **When the display shows " [icon] " (changeover under control), it shows that this is a slave remote controller.**
- **When the cool/heat changeover remote control switch is installed and the display shows " [icon] " (changeover under control).**
  This is because cool/heat changeover is controlled by the cool/heat changeover remote control switch. Ask your Daikin dealer where the remote control switch is installed.

8-3 FAN OPERATION IS POSSIBLE, BUT COOLING AND HEATING DO NOT WORK

- **Immediately after the power is turned on.**
  The micro computer is getting ready to operate. Wait 10 minutes.

8-4 THE FAN STRENGTH DOES NOT CORRESPOND TO THE SETTING

- **The fan strength does no change even if the fan strength adjustment button in pressed.**
  During heating operation, when the room temperature reaches the set temperature, the outdoor unit goes off and the indoor unit changes to whisper fan strength.
  This is to prevent cold air blowing directly on occupants of the room.
  The fan strength will not change even if the button is changed, when another indoor unit is in heating operation.

8-5 THE FAN DIRECTION DOES NOT CORRESPOND TO THE SETTING

- **The fan direction does not correspond to the remote control display.**
  The fan direction does not swing.
  This is because the unit is being controlled by the micro computer.

8-6 WHITE MIST COMES OUT OF A UNIT

Indoor unit

- **When humidity is high during cooling operation.**
  If the interior of an indoor unit is extremely contaminated, the temperature distribution inside a room becomes uneven. It is necessary to clean the interior of the indoor unit. Ask your Daikin dealer for details on cleaning the unit. This operation requires a qualified service person.
- **Immediately after the cooling operation stops and if the room temperature and humidity are low.**
  This is because warm refrigerant gas flows back into the indoor unit and generates steam.

Indoor unit, outdoor unit

- **When the system is changed over to heating operation after defrost operation.**
  Moisture generated by defrost becomes steam and is exhausted.

8-7 NOISE OF AIR CONDITIONERS

Indoor unit

- **A "zeen" sound is heard immediately after the power supply is turned on.**
  The electronic expansion valve inside an indoor unit starts working and makes the noise. Its volume will reduce in about one minute.
- **A continuous low "shah" sound is heard when the system is in cooling operation or at a stop.**
  When the drain pump (optional accessories) is in operation, this noise is heard.
- **A "pishi-pishi" squeaking sound is heard when the system stops after heating operation.**
  Expansion and contraction of plastic parts caused by temperature change make this noise.
- **A low "sah", "choro-choro" sound is heard while the indoor unit is stopped.**
  When the other indoor unit is in operation, this noise is heard. In order to prevent oil and refrigerant from remaining in the system, a small amount of refrigerant is kept flowing.

Indoor unit, outdoor unit

- **A continuous low hissing sound is heard when the system is in cooling or defrost operation.**
  This is the sound of refrigerant gas flowing through both indoor and outdoor units.
- **A hissing sound which is heard at the start or immediately after stopping operation or defrost operation.**
  This is the noise of refrigerant caused by flow stop or flow change.

8-8 DUST COMES OUT OF THE UNIT

- **When the unit is used for the first time in a long time.**
  This is because dust has gotten into the unit.

Outdoor unit

- **When the tone of operating noise changes.**
  This noise is caused by the change of frequency.

8-9 THE UNITS CAN GIVE OFF ODOURS

- **The unit can absorb the smell of rooms, furniture, cigarettes, etc., and then emit it again.**

8-10 THE OUTDOOR UNIT FAN DOES NOT SPIN

- **During operation.**
  The speed of the fan is controlled in order to optimize product operation.

8-11 THE DISPLAY SHOWS " 88 "

- **This is the case immediately after the main power supply switch is turned on and means that the remote controller is in normal condition. This continues for one minute.**

8-12 THE COMPRESSOR IN THE OUTDOOR UNIT DOES NOT STOP AFTER A SHORT HEATING OPERATION

- **This is to prevent oil and refrigerant from remaining in the compressor. The unit will stop after 5 to 10 minutes.**

8-13 THE INSIDE OF AN OUTDOOR UNIT IS WARM EVEN WHEN THE UNIT HAS STOPPED

- **This is because the crankcase heater is warming the compressor so that the compressor can start smoothly.**

9. TROUBLE SHOOTING

If one of the following malfunctions occur, take the measures shown below and contact your Daikin dealer.

The system must be repaired by a qualified service person.

- If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates, or the ON/OFF switch does not properly work;
  Measure: Turn off the main power switch.
- If water leaks from unit;
  Measure: Stop the operation.
- If the display " TEST ", the unit number and the operation lamp flash and the malfunction code appears; **(Refer to figure 12)**
  1. Inspection display
  2. Indoor unit number in which a malfunction occurs
  3. Operation lamp
  4. Malfunction code

  Measure: Notify your Daikin dealer and report the malfunction code.

If the system does not properly operate except for the above mentioned cases and none of the above mentioned malfunctions is evident, investigate the system according to the following procedures.

1. If the system does not operate at all;
- Check if there is no power failure.
  Wait until power is restored. If power failure occurs during operation, the system automatically restarts immediately after the power supply is recovered.
- Check if no fuse has blown or breaker has worked. Change the fuse or reset the breaker if necessary.

2. If the system goes into fan only operation, but as soon as it goes into heating or cooling operation, the system stops;
- Check if air inlet or outlet of outdoor or indoor unit is not blocked by obstacles.
  Remove any obstacle and make it well-ventilated.
- Check if the remote controller display shows " " (time to clean the air filter). (Refer to the chapter "Maintenance" in the indoor unit manual.)

3. The system operates but cooling or heating is insufficient;
- Check if air inlet or outlet of outdoor or indoor unit is not blocked by obstacles.
  Remove any obstacle and make it well-ventilated.
- Check if the air filter is not clogged. (Refer to the chapter "Maintenance" in the indoor unit manual.)
- Check the temperature setting.
- Check the fan speed setting on your remote controller.
- Check for open doors or windows. Shut doors and windows to prevent wind from coming in.
- Check if there are too many occupants in the room during cooling operation.
- Check if the heat source of the room is excessive.
- Check if direct sunlight enters the room.
  Use curtains or blinds.
- Check if the air flow angle is not proper.

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